

ECO *Pulse*

1 - 3KVA (1 Ph - 1 Ph UPS)

Online BIB UPS



Features

- ✦ High frequency on-line double conversion technology
DSP (Digital signal processors) control technology
- ✦ Active power factor correction (APFC), input power factor up to 0.99
Output power factor 0.9
- ✦ Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- ✦ Auto sensing frequency 50 / 60 Hz frequency conversion
- ✦ Cold start
- ✦ Rear ventilation design and variable speed fan
- ✦ Effective software and hardware protection
- ✦ Quick and stable charging, 90% capacity restored in 3 h (standard model UPS)
- ✦ Linear derating in low voltage input reducing battery discharging times
- ✦ Settable delayed start when power is restored Advanced battery management (ABM)
- ✦ Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- ✦ Multi-platform communications: RS232 (standard), USB / RS485 /SNMP / dry contacts (optional)
- ✦ Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, and 12 A charger (2/3 kVA only)

CONTACT US

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Technical Specifications

Capacity	1 kVA/900 W	2 kVA/1800 W	3 kVA/2700 W			
INPUT						
Rated voltage	208 / 220 / 230 / 240 Vac					
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)					
Frequency	40 ~ 70 Hz (auto-sensing)					
Power factor	≥ 0.99					
Bypass voltage range	-25% ~ +15% (settable)					
Total harmonic distortion (THDi)	≤ 6%					
OUTPUT						
Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)					
Voltage regulation	± 1%					
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)					
Waveform	Sinusoidal					
Power factor	0.9					
Total harmonic distortion (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)					
Crest factor	3:1					
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms					
BATTERIES						
DC voltage	24 V	36 V	48 V	72 V	72 V	96 V
Inbuilt battery	2×7 Ah	3×7 Ah	4×7 Ah	6×7 Ah	6×7 Ah	8×7 Ah
Recharge time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery					
SYSTEM						
Efficiency	≥ 90% (Mains mode)		≥ 91% (Mains mode)		≥ 92% (Mains mode)	
	≥ 85% (Battery mode)		≥ 86% (Battery mode)		≥ 87% (Battery mode)	
	≥ 95% (ECO mode)		≥ 96% (ECO mode)		≥ 97% (ECO mode)	
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)					
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection					
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)					
Display	LCD + LED					
Standards	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1, IEC 62040-3					
OTHERS						
Operating temperature	0°C ~ 40°C					
Storage temperature	-25°C ~ 55°C (without batteries)					
Relative Humidity	0 ~ 95% (non-condensing)					
Altitude	≤ 1000 m, derating 1% for each additional 100 m					
IP rating	IP 20					
Noise level at 1m	≤ 50 dB					
Dimensions (W × D × H) (mm)	144 × 336 × 214	144 × 414 × 214	191 × 418 × 335		191 × 464 × 335	
Net weight (kg)	9.5	13	18	25.7	32	

* All specifications subject to change without notice

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